

RoHS

COMPLIANT



# **High Frequency, Surface Mount, Molded Inductor**



STANDARD ELECTRICAL SPECIFICATIONS									
		TEST FREQ		QTYPICAL		SELF	DCR	RATEDDC	
IND (nH)	TOL	L&Q (MHz)	Q MIN	100 MHZ	800 MHz	1.8 GHz	RESONANT FREQ. MIN	±30% (Ω)	
10	±10%	100	10	22	65	110	3300	0.14	540
12	±10%	100	10	22	65	105	3300	0.18	535
15	±10%	100	12	23	70	100	3000	0.18	520
18	±10%	100	12	25	75	95	3000	0.22	480
22	±10%	100	15	25	75	80	2600	0.22	465
27	±10%	100	15	25	75	-	2500	0.26	455
33	±5%,±10%	100	15	28	80	-	2050	0.30	395
39	±5%,±10%	100	15	28	70	-	2000	0.31	390
47	±5%,±10%	100	15	28	70	-	1650	0.35	385
56	±5%,±10%	100	15	28	60	-	1550	0.39	360
68	±5%,±10%	100	15	28	-	-	1450	0.44	340
82	±5%,±10%	100	15	28	-	-	1100	0.48	330
100	±5%,±10%	25.2	8	25	-	-	800	0.66	285
120	±5%,±10%	25.2	8	24	-	-	600	0.76	275
150	±5%,±10%	25.2	10	25	-	-	600	1.13	230
180	±5%,±10%	25.2	10	25	-	-	600	1.24	195
220	±5%,±10%	25.2	10	25	-	-	500	1.41	170
270	±5%,±10%	25.2	10	25	-	-	300	1.50	165
330	±5%,±10%	25.2	10	20	-	-	200	1.66	160
390	±5%,±10%	25.2	10	20	-	-	150	1.82	150
470	±5%,±10%	25.2	10	18	-	-	150	1.97	145
560	±5%,±10%	25.2	10	15	-	-	100	2.07	140
680	±5%,±10%	25.2	10	-	-	-	100	2.32	130
820	±5%,±10%	25.2	10	-	-	-	80	2.60	125
1000	±5%,±10%	7.96	8	-	-	-	80	2.98	120
Note									

Tighter tolerance product may be substituted based on availability.

#### **FEATURES**

- High self-resonant frequency values
- High Q values at higher frequencies
- Molded construction provides superior strength and moisture resistance
- Wirewound construction
- Tape and reel packaging for automatic handling, 3000/reel, EIA481
- · Compatible with vapor phase and infrared reflow soldering
- 100 % lead (Pb)-free and RoHS compliant

### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 10 nH to 1000 nH

Inductance Tolerance: ± 10 % for 10 nH to 1000 nH

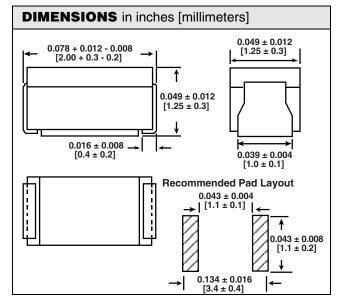
± 5 % for 33 nH to 1000 nH

Temperature Range: - 40 °C to + 105 °C (no load). - 40 °C to

+ 85 °C (at full rated current) Core Material: Non-magnetic

#### **TEST EQUIPMENT**

- Inductance and Q measured on HP4191A
- SRF measured on HP8753B



DESCRIPTION									
IMC-0805	ER	10 nH	± 5 %	e3	WEB CODE				
MODEL	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	JEDEC LEAD (Pb)-FREE STANDARD	sm, wi, ce, cn, te				
CLODAL DADT NUMBER									

GLOBAL PART NUMBER								
I M C	0 8 0 5	ER	1 0 N	J				
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL				



Vishay

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